PATENT COOPERATION TREATY

	From the INTERNATIONAL SEARCHING AUTHORITY								
	To: KENNETH I. KOHN KOHN & ASSOCIATES, PLLC 30500 NORTHWESTERN HIGHWAY, SUITE 410 FARMINGTON HILLS, MI 48334		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY						
			(PCT Rule 43bis.1)						
			Date of mailing (day/month/year) 19 M/V 2005						
Ì	pplicant's or agent's file reference		(day/month/year) 9 M/14 2005						
	3115.00067		See paragraph 2 below						
	International application No.	International filing date	e (day/month/year) Priority date (day/month/year)						
	PCT/US04/25518	05 August 2004 (05.08.2	2004)	08 August 2003 (08.08.2003)					
	International Patent Classification (IPC)			1 00 1105 (00.100.2005)					
ĺ	IPC(7): C12N 5/00 and US CL: 435/325,	375, 377; 424/85.2, 85.5,	85.1, 85.4; 514/2						
l	Applicant	· · · · · · · · · · · · · · · · · · ·							
	IRx THERAPEUTICS, INC.								
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ı	1. This opinion contains indications relating to the following items:								
	Box No. II Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application								
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	Box No. VIII Certain observations on the international application								
	2. FURTHER ACTION								
	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.								
	3. For further details, see notes to Form PCT/ISA/220.								
	Name and mailing address of the ISA/US Authorized officer								
	Mail Stop PCT, Attn: ISA/US Commissioner for Patents Leon/Lenkford								
	P.O. Box 1450								
	Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. \$11-272-1600								
	Form PCT/ISA/237 (cover sheet) (January 2004)								

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/25518

 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: type of material a sequence listing table(s) related to the sequence listing
which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing
invention, this opinion has been established on the basis of: a. type of material a sequence listing
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
rm PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/25518

Box No. V Reasoned statement under Rul			novelty, inventive st	ep or industrial
applicability; citations and exp	lanations supp	orting such sta	itement	
1. Statement				
Novelty (N)	Claims	1-32		YES
, ,		NONE		NO
Turney (TO)	~ 1			
Inventive step (IS)				
	Ciannis	1-32		NO
Industrial applicability (IA)	Claims	1-32		YES
	Claims	NONE		NO
2. Citations and explanations.				
 Citations and explanations: Claims 1-32 meet the criteria set out in PCT Article 	= 33(4), and thus	have industrial ar	oplicability because the s	subject matter claimed car
be made or used in industry.	(),			on the second se
Claims 1-32 lack an inventive step under PCT Artic	cle 33(3) as being	g obvious over		
Hadden et al (5632983). Hadden teaches a treatment of immune pr	roblems using a	therapeutic NCM	(a composition which c	ontains 200-500 units of
IL-2 (col 6)- a compound notoriously old and well 1	known for the tre	eatment of cancer). The composition cont.	ains all of applicant's
limitations with the exception that it does not conta obvious to add CY or INDO to the therapeutic com	n CY or INDO. position of the p	i he invention lac atent because the	cks an inventive step bed composition is intended	to modulate the immune
system of a patient and CY and INDO (or other NS immunocompositions or anticancer compositions.	AIDs) are notori	ously old and wel	l known for their use in	chemotherapeutic
Claim 30 lacks novelty under PCT Article 33(2) as	being anticipated	d by Hadden.		
Hadden teaches a therapeutic NCM which contains	all of applicant's	limitations thus a	anticipating the claim.	
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Form PCT/ISA/237 (Box No. V) (January 2004)